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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/649,593	08/27/2003	Robert Donald Villwock	1001-003	4983
7590 04/19/2005			EXAMINER	
Kristin C. Castle			PAHNG, JASON Y	
Castle & Gross LLP Suite 100			ART UNIT	PAPER NUMBER
11231 Gold Express Drive			3725	
Gold River, CA 95670			DATE MAILED: 04/19/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/649,593	VILLWOCK ET AL.				
Office Action Summary	Examiner	Art Unit				
•	Jason Y Pahng	3725				
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet	with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REITHE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a lif NO period for reply is specified above, the maximum statutory per Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may reply within the statutory minimum of the tod will apply and will expire SIX (6) Matute, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on _						
3) Since this application is in condition for allow						
Disposition of Claims						
4) ☐ Claim(s) 1-42 is/are pending in the application 4a) Of the above claim(s) is/are without 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-42 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	drawn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Exam	iner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to	the drawing(s) be held in abey	ance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corn 11) The oath or declaration is objected to by the	·					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the p application from the International Bur * See the attached detailed Office action for a	ents have been received. ents have been received in priority documents have been reau (PCT Rule 17.2(a)).	Application No en received in this National Stage				
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/ 	Paper N (08) 5) ☐ Notice o	v Summary (PTO-413) o(s)/Mail Date if Informal Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other: _	·				

DETAILED ACTION

Claim Objections

Claims 9 and 23 are objected to because of the following informalities: There appears to be a typographical error.

It appears that claim 9 should depend on claim 8 instead of claim 10.

It also appears that claim 23 should depend on claim 11 instead of claim 13.

Appropriate correction is required.

Claims 23 and 24 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. The scope of the claims 23 and 24 are not clear. Claims 23 and 24 do not further limit the method of comminuting a polyurethane-containing material.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-42 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With regard to claim 1 and 24, the phrase, "at least two steps" (line 7), is not clear. What do the two steps mean? All pulverization process have two steps, at least a step of beginning pulverizing and a step of ending pulverizing.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-7, 10-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wagner et al. (US 5,669,559) in view of Prosser et al. (US 3,687,699).

With regard to claims 1, 10, 11, and 24, Wagner discloses substantially all of the claimed structure with the exception of adding hydrous silicate. In a closely related art, Prosser discloses a process for granulating tacky elastomeric material such as elastomeric polymers (column 2, lines 15-24) by adding a dusting agent such as talc or hydrous silicate (column 3, lines 5-15) in order to reduce agglomeration (column 1, lines 30-40). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to provide Wagner with a dusting agent such as talc or hydrous silicate for pulverizing polyurethane, in order to reduce agglomeration, as taught by Prosser.

With regard to claims 2 and 25, Wagner discloses pulverizing a foamed material (column 5, lines 1 and 2).

Claims 3-5 and 26-28 recite adding hydrous silicate at various stages of the communition process. Prosser discloses that dusting agent can be blown into the vicinity of the cutting action or otherwise caused to make contact with the tacky material, uniform distribution on the freshly cut surfaces of the tacky material particles being the objective (column 3, lines 22-26). It would have been an obvious matter of design choice to add hydrous silicate at various stages of the communition process, since Applicant has not disclosed that the particular location of addition of the hydrous silicate solves any stated problem or is for any particular purpose and it appears that the invention would perform equally well with the process of Prosser.

With regard to claims 6 and 29, Prosser's talc or hydrous silicate is less than 45 micron or 325 mesh size (column 3, lines 5-15).

With regard to claims 7 and 30, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use hydrous silicate with a size in the range of approximately 0.2 mm to 5 mm, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller, 105 USPQ 233*. Furthermore, a size of 45 micron would work equally well as disclosed by Applicant in claims 6 and 29.

With regard to claims 12-14 and 31-33, Prosser's talc or hydrous silicate is added in the amount of approximately between 2 % and 10 % by weight (column 3, lines 16-17).

With regard to claims 15 and 34, Wagner discloses a grinding step with two inputs (1 and 7) and an output (6), and a separation step (10) having an input and two outputs (13 and 14).

With regard to claims 16 and 35, Wagner discloses a conveying step (9 and 12).

The use of conveying system is also disclosed in the specification (page 4) and is

Applicant's Admitted Prior Art (AAPA).

With regard to claims 17 and 36, Wagner discloses a separating step (10) comprising at least one screen (column 3, line 13-15). The use of a screen is also disclosed in the specification (page 5) and is Applicant's Admitted Prior Art (AAPA).

Claims 18-22 and 37-41 do not add further limitations or any more additional steps to the parent claims. Claims 18-22 and 37-41 merely add motivations for adding hydrous silicates as claimed in the parent claims. Nonetheless, Prosser discloses that Prosser's talc or hydrous silicate prevents tacky materials from adherence to and pile up on the cutters and agglomeration upon storage (column 1, lines 34-40).

Claims 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wagner et al. (US 5,669,559) in view of Prosser et al. (US 3,687,699), further in view of Benn et al. (US 4,157,790). Claims 8 and 9 call for a solid additive chosen from a group including carbon black. In a closely related art, Benn discloses a process for pulverizing rubber with the use of a solid additive, carbon black (column 3, lines 19-22), in order to reduce agglomeration (column 1, lines 11-19). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to provide Wagner (as

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modified by Prosser) with a dusting agent such as carbon black for pulverizing polyurethane, in order to reduce agglomeration, as taught by Benn.

Claims 23 and 42, as well as can be understood, are rejected under 35 U.S.C. 103(a) as being unpatentable over Wagner et al. (US 5,669,559) in view of Prosser et al. (US 3.687,699), further in view of Triolo et al. (US 6,136,870). Claims 23 and 42 call for a solid additive or hydrous silicate containing polyurethane powder to be used to produce polyurethane-containing foam having approximately 0.01 to 10 % by weight of the solid additive hydrous silicate. In a closely related art, Triolo discloses producing a polyurethane-containing foam with additives such as silica and talc (column 8, lines 31-37) in order to improve softness (column 2, lines 61-64). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to use the powder provided by Wagner (as modified by Prosser) to produce a polyurethane-containing foam with additives such as hydrous silicate in order to improve softness, as taught by Triolo. Note that Triolo discloses using 10 % by weight of a mixture cotaining silica or talc.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Y Pahng whose telephone number is 571 272 4522. The examiner can normally be reached on 9:00 AM - 7:00 PM, Monday-Thursday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Derris Banks can be reached on 571 272 4419. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JYP

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700—